

LOW-MU TRIODE MODULATOR **OSCILLATOR** AMPLIFIER

GENERAL CHARACTERISTICS

ELECTRICAL CHARACTERISTICS
Filament: Thoriated tungsten Voltage 5.0 of 10.0 volts Current 12.5 or 6.25 amperes
Amplification Factor (Average) 12
Direct Interelectrode Capacitances (Average) Grid-Plate 4.4 $\mu\mu$ f Grid-Filament 4.5 $\mu\mu$ f Plate-Filament 0.7 $\mu\mu$ f
Transconductance ($i_b = 500 \text{ ma.}$, $E_b = 3000 \text{ v.}$, $E_c = -85 \text{ v.}$) 7150 umhos
MECHANICAL
Base Special 4 pin, No. 5000B Basing RMA type 4BC Maximum Overall Dimensions:
Length 7.625 inches Diameter 2.563 inches Net weight 7 ounces
Shipping weight (Average) 2.0 pounds



AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR Class B

		GRID C		TYPIC	MAX. RATING		
D-C Plate Voltage	1500	2000	3000	1500	2000	3000	3000 volts 450 ma. 150 watts
D-C Grid Voltage (approx.) Peak A-F Grid Input Voltage Zero-Signal D-C Plate Current MaxSignal D-C Plate Current	-105 210 135 286	-160 320 100 260	-260 520 65 220	-105 500 135 570	-160 620 100 500	-260 675 65 335	volts volts ma. ma.
MaxSignal Driving Power (approx.) Effective Load, Plate-to-Plate MaxSignal Plate Power Output *Averaged over any sinusoidal audio frequency cycle.	0 5100 130	0 10500 220	0	15 5500 560	13 9000 700	3	watts ohms watts

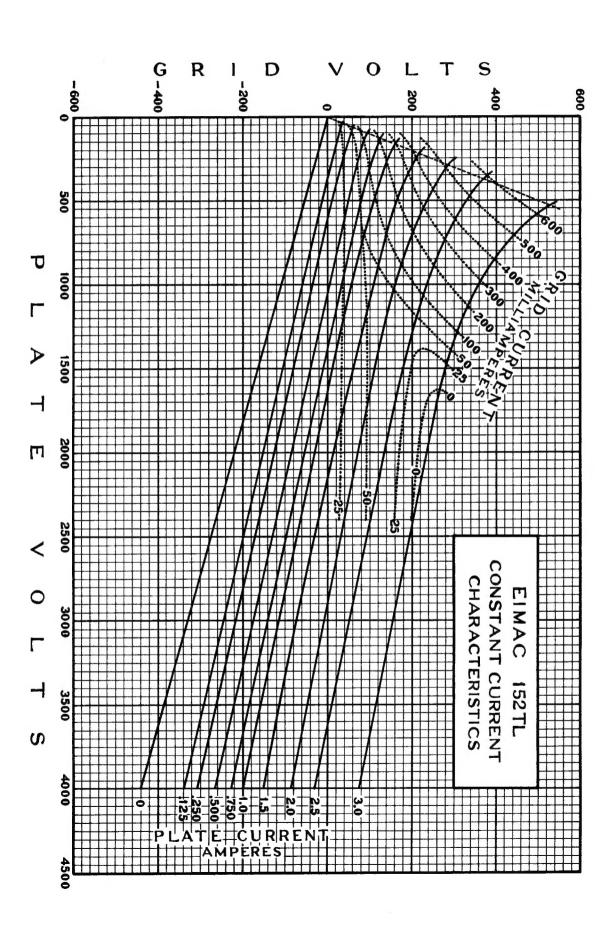
RADIO FREQUENCY POWER AMPLIFIER AND OSCILLATOR

Class-C *Telegraphy
(Key down conditions without modulation)

						TYPICAL	OPERATION-	-1 TUBE	MAX. RATING
D-C Plate Voltage	_	_	_	_	-	1500	2000	3000	3000 volts
D-C Plate Current	-	-	-	-	-	333	300	250	450 ma.
D-C Grid Current	-	-	-	-	-	45	42	40	7 5 ma .
D-C Grid Voltage	-	-	-	-	-	-250	-300	-4 00	volts
Plate Power Output	-	-	-	-	-	350	450	600	watts
Plate Input	-	-	-	_	-	500	600	750	watts
Plate Dissipation	-	-	-	-	-	150	150	150	150 watts
Peak R. F. Grid Input Voltage,	(a _l	ppro	ox.)	-	-	400	455	550	volts
Driving Power, (approx.) -	-	-	-	-	-	16	18	20	watts

^{*}The above figures show actual measured tube performance, and do not allow for variations in circuit lesses.







DRIVING POWER vs. POWER OUTPUT

The three charts on this page show the relationship of plate efficiency, power output and grid driving power at plate voltages of 1500, 2000 and 3000 volts. These charts show combined grid and bias losses only. The driving power and power output figures do not include circuit losses. The plate dissipation in watts is indicated by Pp.

Points A, B, and C are identical to the typical Class C operating conditions shown on the first page under 1500, 2000, and 3000 volts respectively.

